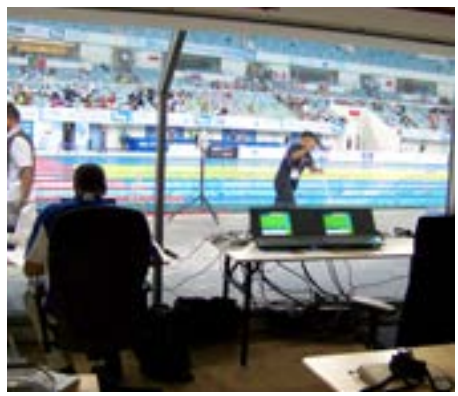
Colorado Time Systems
A PLAYCORE Company

Complete Timing, Scoring, Training, and Display Solutions

2015



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Trust in the Leader

Commitment

You have a commitment to your fans, your team, and your community. CTS is committed to you and those you have a commitment to. Our sales consulting staff, project management team, installation crew, and customer service group are dedicated professionals who will help you design, install, and maintain your scoring, timing, and display systems for maximum impact and return on investment.

Industry Knowledge

Our product engineers and designers have over 45 years combined experience. With a comprehensive network of contacts within the industry, we are kept abreast of technological developments as they arise. You can rest assured that our technology is the best available on the market today.

Project Management

With the purchase of a timing, scoring, and display solution; a comprehensive project management team is assigned to assist you in achieving a seamless installation and unparalleled support once the project has been completed. A Project Manager oversees your installation from contract to completion. The Project Manager is your point of contact through installation and will interface with you, the architect, and the construction company. Members of the project management team include:

- Sales Management
- Engineering Staff
- Project Manager
- Installation Supervisor

Customer Support

- 24 x 7 enhanced customer support available
- Phone and email support
- On-site service
- On-site installation
- Training courses
- Maintenance videos

Financing

Colorado Time Systems has partnered with Nationwide Business Capital to provide financing to organizations wishing to purchase equipment. Contact your sales consultant for additional information.

Colorado Time Systems is the Official Scoring System of USA Diving, the Official Scoring and Display Systems supplier of U.S. Synchronized Swimming, the Official Scoring and Timing System of USA Water Polo, the Official Timing and Display System of the American Swimming Coaches Association, the Official Timing and Scoring Partner of United States Masters Swimming, the Official Timing System of the College Swimming Coaches Association of America, Gold Sponsor of Texas High School Coaches Association, and the Official Timing Partner of China Swimming Association, Federacion Mexicana de Natacion and the Brazilian Swimming Federation.

Our products are proudly manufactured in Loveland, CO USA.

Colorado Time Systems
a PLAYCORE Company

(800) 279-0111

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A letter from Colorado Time Systems:

I would like to take this opportunity to thank you for your support over the last 40+ years. Our customers are at the center of everything we do at Colorado Time Systems. It is only with your input that we are able to bring the best products to the market.

Today, we span the globe with customers in over 120 countries, and have run meets in every continent in the world.

You can expect to see Colorado Time Systems in more facilities and at more events across the globe. We encourage you to take a look at our newly launched Otter LED numeric scoreboard line; which includes scoreboards for swimming, diving, and water polo.

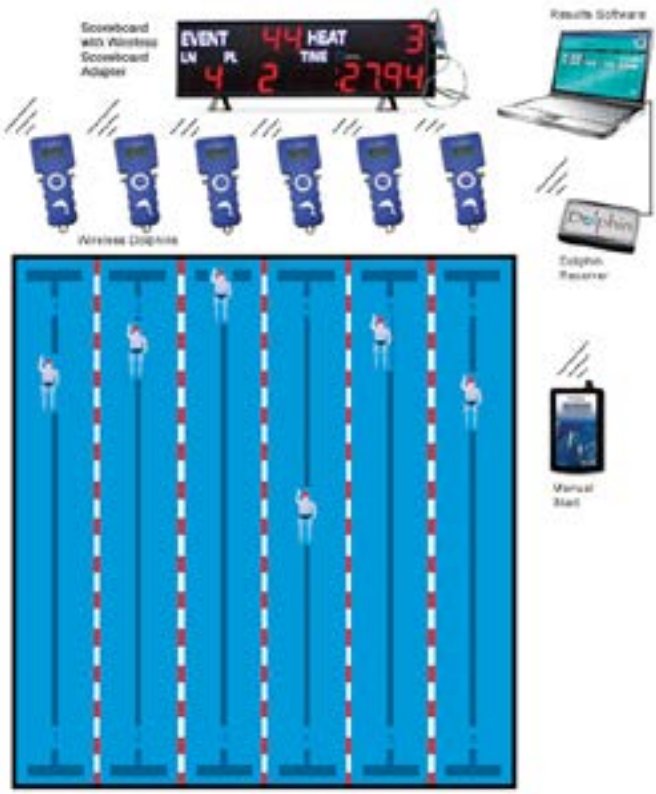
We would like to thank each and every one of you for your continued loyalty and support. You can count on the industry leader for your complete timing, scoring, display, and training solutions.

Sincerely,

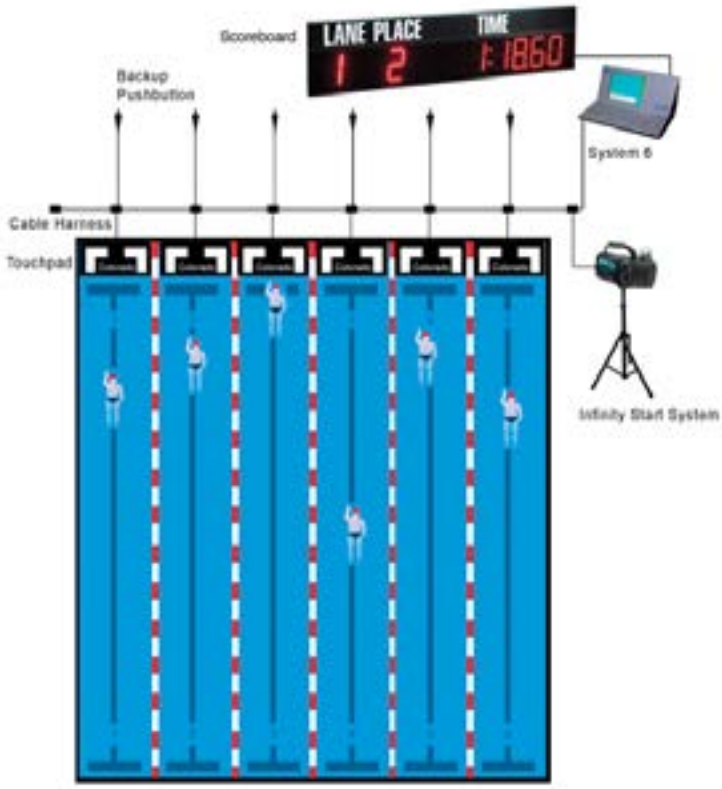
Senior Vice President - PlayCore
General Manager - Colorado Time Systems

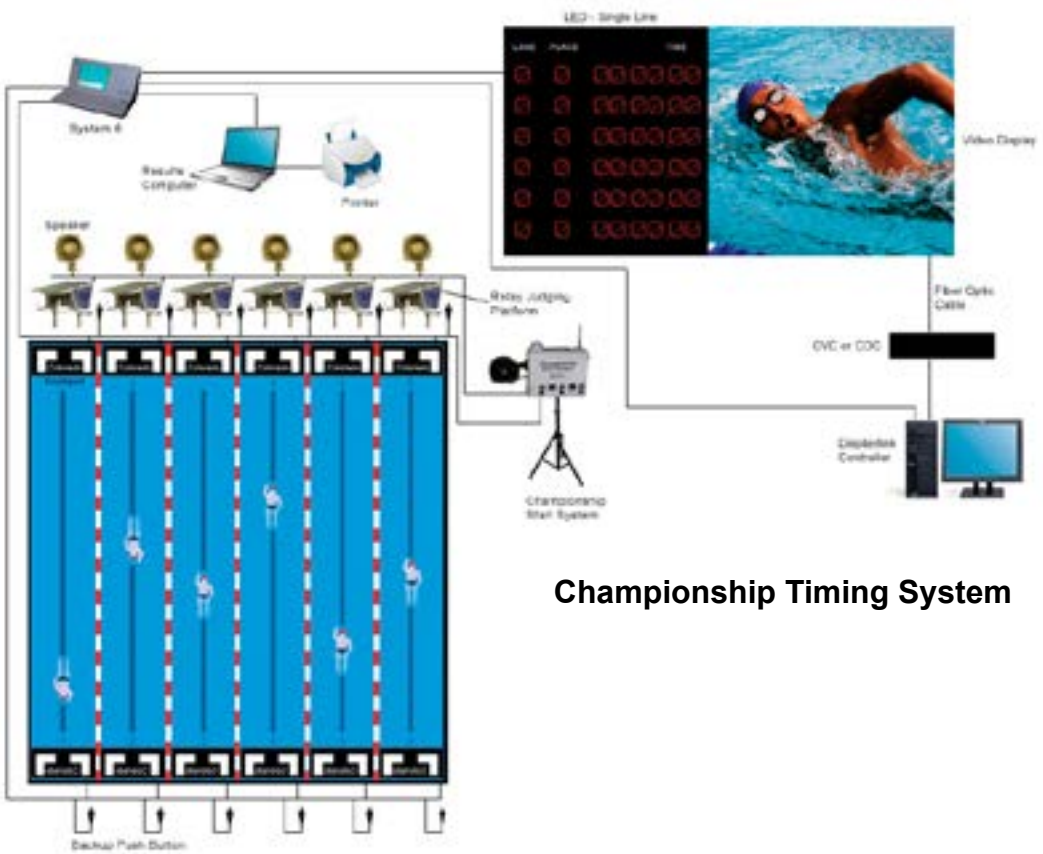
Timing & Touchpad System Diagrams

Basic Swim Timing



Basic Touchpad Timing





Championship Timing System

Start Systems

Start your meets with confidence with a Start System from Colorado Time Systems. Choose from the Infinity Start System or the Championship Start System. Both are excellent choices, and each offers limited PA functionality.

Infinity Start System

The Infinity Start System makes an excellent entry-level start system, and its lower cost makes it a great choice for smaller pools and recreation centers. It is an easy-to-use portable start system and limited public address system.

Microphone

The Infinity Start System includes a wired microphone.

Built-in 360° strobe

Flashes with the start signal. This gives timers and officials a reliable start reference, and provides a visual cue to hearing-impaired athletes. Additional strobe lights may be added.

Battery power

The Infinity Start System runs on an internal, rechargeable gel-cell battery. The Infinity will not operate while charging. An optional secondary gel-cell battery and charger are available.

Limited public address system

The Infinity Start System can serve as a limited public address system, allowing you to make announcements during practice and competition.

Specifications

Height: 8.9 in (22.6cm)
Length: 15 in (38.1cm)
Width: 6.9 in (17.5cm)
Weight: 12 lbs (5.4kg)

Infinity Start System & Accessories	
part #	**description**
INF-SSM	Infinity Start System, 110/120V
INF-SSMF	Infinity Start System, 220/240V
INF-LSIx	Cable, Timer to Wallplate (available in lengths of 10-, 25- or 50-feet)
TR-3	Tripod for Infinity or Championship Start System
R-INF-SPxxx	Infinity external 40-watt speaker (available in lengths of 125- or 200-feet)
R-INF-SJxxx	Infinity start jumper cable (available in lengths of 25-, 50-, 75-, 100-ft or 50m)
M-25	Microphone with 25-foot cable
EXTSTROBE	Infinity external strobe
SMK-1	Kit to mount speaker on backstroke pole
BP-3	Spare battery and external charger

Championship Start System

The Championship Start System delivers rugged durability and long lasting performance. This high-powered, easy to set up system is an excellent choice for larger aquatic facilities.

Microphones

- Three separate microphone inputs: two wired and an optional wireless microphone
- Independent volume control for each microphone input; microphone volume is independent of start tone volume

Speedlights

LEDs across the front of a Colorado Time Systems' Relay Judging Platform that flash simultaneously with the Championship Start speaker tone and strobe light. The Championship Start System can drive Speedlights on RJPs in up to 12 lanes. Speedlights level the playing field for hearing-impaired athletes, and offer all athletes a visual cue for the start.

External 360 ° strobe

Flashes with start signal. This gives timers and officials a reliable start reference,and provides a visual cue to hearing-impaired athletes.

Underwater speaker

Add an underwater speaker for underwater recall of false starts, and as an exceptional training tool.

Battery or 110/240V power

The Championship Start System has the flexibility to be used in a fixed location with 110/240V power or as a portable system with battery power. LED Low Battery Indicator alerts you when the battery level is getting low. This unit will operate while charging.

Limited public address system

The Championship Start System can serve as a limited public address system, allowing you to make announcements during practice and competition.

Specifications

Height: 13.25 in (33.7cm)
Width: 13 in (33cm)
Depth: 5.75 in (14.6cm)
Weight: 17.4 lbs (7.9kg)

Championship Start System & Accessories

part #	description
SS	Championship Start System with wired microphone
WSS	Championship Start System with wireless microphone, 110/120V
WSSF	Championship Start System with wireless microphone, 220/240V
M-25	Microphone with 25-ft cable
TXR	Wireless microphone
CMP-WPxx	Cable, timer to wallplate (available in 25- and 50-ft)
SP-UND	Underwater speaker for Championship Start Systems
SP-6/45	External 40-watt speaker (available with 125- or 200-ft cable length)
SMK-1	Kit to mount speaker to backstroke pole
CMP-ES	External strobe
TR-3	Tripod for Infinity and Championship Start Systems

Timing Systems

Dolphin

Wireless Stopwatch Timing System

Dolphin is a proven wireless timing system with a fully integrated Hy-Tek Meet Management interface. Dolphin provides wireless, synchronized, stopwatch-style timing for swimming competitions. It significantly reduces the amount of time and effort required to run a meet and manage data. By eliminating manually writing in times and manually typing them, the system has dramatically improved accuracy in comparison to manual stopwatches.

Dolphin is approved by USA Swimming, Swimming Australia, and Swimming NSW.

Requirements
Hy-Tek Meet Manager
Laptop Computer (running Windows)

Specifications
Wireless: 16 channels, spread spectrum, 2.4GHz
Battery: Standard 9V provides 40+ hours of operation
Stopwatch dimensions:
Size (L x W x D): 2.75" x 4.5" x 1" (7cm x 11.4cm x 2.5cm)
Weight: 4.8 oz (165 grams)
RoHS compliant, CE compliant
U.S. Patent Nos:
7,821,876 and 8,085,623

Three modes of operation:

Electronic Synchronized Start/Manual Stop

Connect the starter unit to any CTS electronic start system. All watches will start timing with the start system signal. Each watch stops when the lane timer stops it.

Manual Synchronized Start/Manual Stop

The official with the starter unit presses the START/STOP key. All watches start timing from this signal. Each watch stops when the lane timer stops it.

Manual Start/Manual Stop

This mode is used for collecting backup times at major events, and is compliant with all swimming ruling bodies' (FINA, NCAA, USS, NFHS, YMCA) requirements for backup timing. Lane timers start and stop the watches independently for a fully manual system.

In all three modes, the times are wirelessly transmitted and saved for immediate access by Meet Manager. The starter unit is used to reset the system before the next race.

Each Dolphin system includes:

- Handheld wireless stopwatches for each lane (the system supports up to 3 lane timers per lane, and up to 10 lanes)
- Starter unit
- Base unit, which connects via USB cable to your computer running Hy-Tek Meet Manager with the Dolphin module
- Split time tracking (up to 10 split-times per event)

Who can use Dolphin?

Everyone. Whether you use Dolphin in competition or practice, Dolphin is an accurate, wireless, and effortless timing solution. Dolphin will save you time and improve data accuracy, all by simply connecting to your laptop.

Dolphin Configurations

part #	description
WTS-D1061	6-lane with 1 watch per lane
WTS-D1062	6-lane with 2 watches per lane
WTS-D1063	6-lane with 3 watches per lane
WTS-D1081	8-lane with 1 watch per lane
WTS-D1082	8-lane with 2 watches per lane
WTS-D1083	8-lane with 3 watches per lane
WTS-D1101	10-lane with 1 watch per lane
WTS-D1102	10-lane with 2 watches per lane
WTS-D1103	10-lane with 3 watches per lane
R-1004-0506	Spare stopwatch

Start System Adapter Kits

part #	description
K-DSS-1	Dolphin to Infinity
K-DSS-2	Dolphin to Championship Start System

A **Dolphin Scoreboard Adapter** is available, and allows your CTS LED numeric scoreboard to wirelessly receive and display split and result data from the Dolphin system.

System 6 Timing Console

Colorado Time Systems sets the standard in aquatic timing and scoring with the System 6 Timing Console. The System 6 is used worldwide at Championship meets, including FINA and NCAA Championships.

The System 6 is your central timing console and coordinates incoming and outgoing information from the key components of your complete timing system.

Swimming and diving software programs come standard with each system. Water Polo and Pace Clock software are also available. You can switch between sports by utilizing the keyboard inserts provided with each additional software package.

Subtracted splits:
The System 6 can post subtracted splits to LED matrix displays or specially configured single line numeric modules.

Scoreboard cycling:
If you have fewer lines of numeric scoreboard than lanes in your pool, the System 6 can cycle the lanes automatically.

Intensity control:
The System 6 has a built-in feature to control the intensity of the LED Numeric Scoreboards and LED Pace Clocks. This is beneficial when using a facility for both day and night events, as well as indoor and outdoor events.

Intelligent button handling:
The System 6 will apply the ruling governing bodies' rules to backup buttons on a per-lane basis. The appropriate rule will be used to generate the backup time based on the number of buttons that are received for a lane.

You have the option to automatically adjust the backup time for a lane with a discrepancy. If backup time adjustment is turned on, the System 6 will calculate the average differential across all good lanes and factor that into the backup time.

Expanded lane capability:
The System 6 is the only timing console on the market that can support up to 12 lanes. The System 6 is engineered for flexibility in lane shifting and lane reversal. This allows you to shift your race course to the center lanes of your pool and keep the lane numbering standard.

Relay judging:
The System 6 has improved relay judging in swimming. The window of time surrounding the touchpad hit is alterable during set up. This lets you constrain the amount of time the System 6 is looking for an RJP impulse, thus avoiding external influences such as athletes hitting the RJPs or stretching on them.

Start reaction:
The System 6 will measure the time difference between the start signal and the impulse from the RJP or the touchpad (backstroke starts). When the start reaction time is enabled, the System 6 will post the start reaction time to the scoreboard.

Declare start/finish end:
You can tell the System 6 where odd and even lengths races will start, which determines where they will finish. This way, in a 50m race you can start at the far end and finish at the near end (odd length race). The even length races would be set to start at the near end, which will then finish at the near end.

Dynamic sponsor message:
Load your own sponsor message and it will appear at the top of each results page print out.

Lane re-arming:
The System 6 will automatically turn on any lanes that are used in a pool after a Reset. This way, there is no chance of leaving a lane off when a swimmer is in the next heat.

Enhanced split handling:
Race split times are printed as they occur. Lap and cumulative splits are stored, and can be posted to a LED matrix display scoreboard during a race. The System 6 supports unlimited splits, both near- and far-end.

Meet management:
The System 6 is compatible with most Meet Management Programs.

Rechargeable battery:
The System 6 includes a rechargeable battery for backup in case of an emergency power outage.

Specifications:

Product safety approval: UL Certification
Dimensions (H x W x D):
9.75" x 18.38" x 11.5" (24.8cm x 46.7cm x 29.2cm)
Weight: 10 lbs (4.6kg)
Power: 120V 50/60Hz 0.8 Amps
Construction: Durable molded plastic

Large, full-color screen:
The System 6 features a large (8.4" x 6.3") back-lit color screen; making it easy for you to read the information displayed

USB Functionality:
Support of PCL printers (USB or parallel), memory stick for data transfer, keyboard, and mouse support

Internet upgrade capability:
Ethernet connection for unlimited race information storage and easy system upgrades

Multi-sport options:
Optional changeable keyboard inserts and software programs are available for water polo and training pace clock

Wireless options:
Hardware add-ons allow you to transmit data wirelessly from your Timing Console to your CTS scoreboard (numeric or matrix), or wireless pace and/or shot clocks. Choose from either 900 MHz (top) or 2.4 GHz (bottom)

System 5 Timing Console

Our fifth generation timing console, the System 5, offers large memory capacity, a full matrix LCD display, and an extensive array of options.

- Preprogrammed event sequencing with customizing capabilities
- Large on-screen display
- Meet management interface port for PC download
- On-screen warning messages to assist operator
- Automatically flags 3/10th second discrepancy
- Additional sport programs available
- Memory capacity to over 500 races
- System self-diagnostics
- Automatic and semi-automatic relay judging option

External printer capability:
System 5 interfaces to any full-size IBM PCL compatible printer for clear, easy to read customized print-outs. Print race results, splits, or an entire condensed meet summary at any time during or after the meet.

Adjustable full matrix LED display:
The System 5 screen is a full-size LCD display providing complete race information including our "mini scoreboard" feature. A contrast control assures clear, crisp images in any environment.

Additional on-screen windows allow selections for events, equipment options, and self-diagnostics for the timing console, touchpads, cables, scoreboard, and backup buttons.

Front panel display:
Selectable lane or place finish. Race and lane status, pad status, lane arming status, and HELP text are displayed on the 25 x 80 line character LCD display to allow the operator to see the entire race status at a glance. Includes on-screen battery gauge for monitoring battery power.

Multi-sport options:
Swimming and diving programs are standard. The System 5 offers optional changeable keyboard inserts and software programs for water polo and pace clock.

Splits:
Race time splits are printed as they occur. Far-end splits capability using single computer console.

Timing and placing:
Select timing resolution of 0.001 or 0.01 second with a timing range of 99:59.999.

General:
System 5 consists of a multi-sport computer console, swim and diving keyboard inserts and built-in clock calendar. Timing and placing capability for up to ten individual lanes. Includes data transfer to Windows-based computers.

Power:
The System 5 operates up to 40 hours on eight (8) "D" batteries. A 115V wall transformer is included as an alternate power source. A 200V alternate power source is also available.

Championship Touchpads

Standard Surface and AquaGrip® Touchpads

Get a grip on every start and turn!

CTS AquaGrip® touchpads feature the patented AquaGrip® texture over the foundation of a tough plastic backbone. The AquaGrip® touchpads combine the best starting and turning surface available with the proven design that all Colorado Time Systems touchpads have used for over four decades.

The all-plastic construction is tough and durable, yet the textured, non-skid surface is gentle on swimmers' hands and feet. The solid quarter inch plastic backbone, molded one-piece connectors, and non-corrosive finish provide long-lasting reliability.

Our touchpads are lighter in weight than other touchpads, making it easier for one person to insert and remove the touchpads for a meet, and avoiding any major damage if accidentally dropped on the pool deck or the bottom of the pool.

Our touchpads can be left in the water for the entire duration of a multi-day meet, so you will not have to get the pool re-certified each day of the meet.

Dependable, internally sealed switches record even the lightest swimmers' touch on the fully active face of all CTS touchpads, and along the top edge of gutter-mounted pads. You get an accurate finish every time with no "dead spots."

CTS touchpads can be custom made for any lane width and/or made with notches to accommodate various bulkheads or end walls to provide the largest finishing surface.

Each facility is provided with custom touchpad brackets for your specific gutter. This avoids your pads shifting left or right while in the water.

Touchpad Caddy

Your Colorado Time Systems touchpads are precision electronic instruments, and can be protected with a touchpad caddy that provides safe storage and a convenient way to transport touchpads to and from the pool deck. Each caddy can accommodate up to 10 touchpads.

Specifications:

Caddy for standard pads:
Dimensions: 82" x 47" x 22" (208.3 x 119.4 x 55.9 cm)
Weight: 105 lbs (47.6kg)

Caddy for FINA or 96" pads:
Dimensions: 102" x 60" x 22" (259 x 152.4 x 55.9 cm)
Weight: 150 lbs (68kg)

Touchpads & Accessories	
part #	**description**
TP-60F	60" x 24" Standard flatwall touchpad
TP-60G	60" x 22" AquaGrip® gutterhung touchpad
TP-60GF	60" x 24" AquaGrip® flatwall touchpad
TP-78F	78" x 24" Standard flatwall touchpad
TP-78G	78" x 22" AquaGrip® gutterhung touchpad
TP-78GF	78" x 24" AquaGrip® flatwall touchpad
TP-96	96" x 22" Standard gutterhung touchpad
TP-96G	96" x 22" AquaGrip® gutterhung touchpad
TP-188.5	188.5cm x 90cm FINA gutterhung touchpad
TP-188.5F	188.5cm x 90cm FINA flatwall touchpad
TP-195	195cm x 90cm FINA gutterhung touchpad
TP-195F	195cm x 90cm FINA flatwall touchpad
TP-240	240cm x 90cm FINA gutterhung touchpad
TP-240F	240cm x 90cm FINA flatwall touchpad
TPM-D	Touchpad test meter
VP-2	Vacuum pump

Relay Judging Platforms

Relay Judging is the most accurate way to judge relay exchanges

Features:

- Light weight
- Custom logos available
- Suitable for all athletes, at all levels
- Dual connector block offers flexibility and convenience
- Deckside start indicator on connector block flashes simultaneously with the start system and speedlights for a visual cue to backup timers
- Simplified connection from RJP to cable harness or deck plate - a single connector runs parallel to the RJP to reduce the risk of accidental disconnect
- Highest rated non-slip surface on the market
- Universal mounting system compatible with most Starting Block manufacturers

Custom logo for Virginia Tech

RJP Caddy

Protect your Relay Judging Platforms with the RJP Caddy. Caddies are available to hold RJPs that are either 20" wide (up to 24" long) or 24" wide (up to 32" long).

Design features:

- Optional hooks can be installed to store RJP cables
- Lightweight, sturdy aluminum construction

Relay judging:
Colorado Time Systems' Relay Judging Platform technology is the most accurate way to judge relay exchanges. The RJP automatically compares the incoming swimmers' finish on the touchpad with the departure of the swimmer leaving the starting platform. The RJP will record the necessary information to judge a relay exchange to 1/100th of a second.

Start reaction:
On every start, the RJP senses when the swimmer leaves the block and compares the time to the start impulse from the start system with 1/100th of a second accuracy.

Speedlight technology:
LEDs across the front of the RJP flash simultaneously with the start tone and strobe light. All athletes benefit from the visual signal, which they can easily see without altering their race-ready posture. Backstrokers benefit from the visual start signal, just inches from their eyes.

Deckside start indicator:
An LED is integrated into the connector block on the deck side. The LED flashes simultaneously with the start signal and speedlights to give the deckside backup timers a visual cue, and increase the accuracy of backup times.

Elegantly engineered:
Both the top and leading edge of the RJP are sensitive to the swimmers' departure. Extensive research and elegant engineering allow the RJP to decipher between weight shifts and when a swimmer actually leaves the platform.

Accessories:
A tester is available to assist you in troubleshooting your units. Test for take off detection and speedlights (RJPLD-T).

Starting Blocks

Colorado Block®

The Colorado Block® is an integrated starting block solution; a combination of Paragon Aquatics' Track Start Competitor starting block and Colorado Time Systems' Relay Judging Platform with Speedlights and under block start speaker.

The Colorado Block® provides facilities with the competitive advantage:

- *Accuracy in competition.* Facilities with the Colorado Block® can rely on all the benefits of the CTS RJPs.
- *Training advantage.* Teams who train with the Colorado Block® can fine-tune their start reaction times and relay exchanges with quantifiable results, giving them the competitive edge.
- *Simplified cabling.* Eliminate extra cables with the quick connect deckplate and connection hub system.

Fusion Starting Platform

The Fusion Starting Platform is a fusion of technologies between Spectrum Aquatics and Colorado Time Systems.

Features include:

- Adjustable track start footrest as approved by FINA, USA Swimming, NCAA, and NFHS
- Built-in Colorado Time Systems' Relay Judging Platform
- Single post anchor with patented anti-wobble, locator pinned design
- 32" x 24" NON-SLIP surface platform top for extra-fast starts
- Side handles to enhance speed and quick takeoffs
- Backstroke handles with versatile 18" H bar
- Stainless steel construction
- Suggested setback of 30" - accommodates anchor setbacks of 24" to 38"
- Available in grey, with upgrade of custom colors and logos available

In- and On-Deck Solutions

In-Deck Solutions

Colorado Time Systems offers a variety of in-deck solutions to minimize trip hazards on your deck and maintain an aesthetically pleasing facility. Talk to your sales representative to find the best solution for your facility.

Titanium Deckplate

QuickConnect Deckplate

On-Deck Solutions

Cable harnesses are designed to be used in a pool environment without the need for additional protection from the environment.

With multiple options available, we have a harness to fit your facility needs.

Cable Harnesses & Accessories	
part #	**description**
CH41-6	6-lane touchpad, pushbutton primary harness
CH41-6-3	6-lane pushbutton backup harness
CH41-8	8-lane touchpad, pushbutton primary harness
CH41-8-3	8-lane pushbutton backup harness
CH41-10	10-lane touchpad, pushbutton primary harness
CH41-10-3	10-lane pushbutton backup harness
CH41-12	12-lane touchpad, pushbutton primary harness
CHE-41P-50M	Extension for primary CH41
CHE-41-50M	Extension for primary & backup CH41

Diving & Synchronized Swimming

Count on Colorado Time Systems for complete solutions for all aquatic sports.

Colorado Time Systems proudly offers multiple solutions for scoring diving and synchronized swimming meets. All options are compatible with any of our LED numeric or matrix scoreboards and displays.

Diving

Colorado Time Systems is the Official Scoring System of USA Diving

Run your diving meets with either the System 5 or System 6 Timing Console. Our diving program works well with most meet management programs.

The 2.4GHz wireless judging terminals and wireless interface boxes transmit judging data wirelessly back to the Timing Console.

Synchronized Swimming

Colorado Time Systems is the Official Scoring System of USA Synchronized Swimming

Colorado Time Systems' Synchro Meet Management Program makes running a meet easy. Scoring data can be entered manually, or you can use 2.4GHz wireless judging terminals and wireless interface boxes to transmit judging data wirelessly back to your computer.

Wireless Judging

Increase your diving and synchronized swimming meet efficiency, safety, and reduce your overall cost with the 2.4GHz Wireless Judging Terminals (WJT).

Easy to set up: No more cables running on the deck. Simply connect the Wireless Interface Box and assign judge numbers to each Wireless Judging Terminal.

Easy to use: Each judge enters his or her score on the WJT when prompted. The WJT transmits the scores for each judge back to the timing console or computer.

Water Polo

Colorado Time Systems is pleased to offer a variety of water polo scoring solutions, allowing you to select the right solution for your facility. Whether you are looking for a wired or wireless solution, we have the scoring system to suit your needs.

Operating Consoles

Timing Console: With the water polo software, your System 6 can control the shot clocks, game time, three penalty times per team, team scores, and horn using our numeric or LED matrix scoreboards. The operator can also edit the preset times and set the time of day. Wireless adapters are available for a completely wireless solution.

Wireless Controllers: The 2.4GHz integrated wireless tabletop and handheld controllers are designed for use with most of our numeric scoreboard solutions. Each features and operating distance up to 1,000 ft., buttons with tactile dome feedback, and a large transflective screen that is easily readable in all environments from darkness to bright sunlight.

Wireless Tabletop Controller (WTTC-1)

Wireless Handheld Controller (WHC-1)

Water Polo Scoreboards

Portable Tabletop Scoreboards

- Integrated 2.4GHz wireless
- 12 independent channels and 16 independent networks per channel that provide reliable communication for up to 192 games at a facility
- Rugged powder-coated aluminum enclosure
- Conformal coated digits and circuit boards to protect against corrosion
- High visibility 5" LED digits
- Designed for wireless use with the tabletop or handheld controller
- Wireless or wired System 6 timing console interface
- Optional external horn
- Can be used with deck clocks

"What sets Colorado Time Systems' equipment apart for us is the value proposition. They make great, reliable scoreboards, 30-second clocks and other water polo electronics, and they provide premium equipment at outstanding prices. They are also innovators, offering new solutions in score keeping as well as training tools." -- CHRISTOPHER RAMSEY, CHIEF EXECUTIVE OFFICER, USA WATER POLO

Colorado Time Systems is the Official Scoring and Timing System of USA Water Polo

Water Polo Scoreboards

Multisport Portable Scoreboard

- Integrated 2.4GHz wireless
- 12 independent channels and 16 independent networks per channel that provide reliable communication for up to 192 games at a facility
- Rugged powder-coated aluminum enclosure
- Conformal coated digits and circuit boards to protect against corrosion
- High visibility 10” LED digits display game time and home/guest score, 7” LED digits display period
- Designed for wireless use with the tabletop or handheld controller
- Wireless or wired System 6 timing console interface
- Can be used with deck clocks
- Optional caddy for smooth transportation from one facility to the next

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OTTER Water Polo Scoreboards

- Integrated 2.4GHz wireless
- 12 independent channels and 16 independent networks per channel that provide reliable communication for up to 192 games at a facility
- Rugged powder-coated aluminum enclosure
- Conformal coated digits and circuit boards to protect against corrosion
- High visibility 5” LED digits
- Designed for wireless use with the System 6 timing console or wireless tabletop controller
- Optional external horn
- Can be used with deck clocks
- Caddy or permanent mount

LED-R Scoreboards

- Optional wireless capabilities with wireless scoreboard adapter
- Rugged powder-coated aluminum enclosure
- Conformal coated digits and circuit boards to protect against corrosion
- High visibility 10” LED digits (amber or red)
- Designed for use with the System 6 timing console
- Optional external horn
- Can be used with deck clocks or pace clocks
- Digits can be reconfigured for other aquatic sports
- Caddy or permanent mount

Water Polo Scoreboards

LED Matrix Displays

- Optional wireless capabilities with wireless scoreboard adapter
- Modular design allows you to customize for your facility
- Conformal coated LEDs and circuit boards to protect against corrosion
- Designed for use with the System 6 timing console or wireless tabletop controller
- Optional external horn
- Displays scoring, animations, and video
- Can be used for any sport
- Permanent installation

Water Polo Shot Clocks

Deck Clock

- Integrated 2.4GHz wireless
- 12 independent channels and 16 independent networks per channel that provide reliable communication for up to 192 games at a facility
- Ruggedized polyethylene enclosure is water and sun resistant
- Conformal coated digits and circuit board to protect against corrosion
- High visibility 10” LED digits display shot time and 5” LED digits display game time
- Designed for use with the wireless tabletop controller, wireless handheld controller, or System 6 timing console
- Integrated horn performs separate shot and game tones
- Use as a pace/time of day clock when not in competition

Pace Clock

- Rugged powder-coated aluminum enclosure
- Conformal coated digits and circuit board to protect against corrosion
- High visibility 10” LED digits
- Internal horn
- Designed for use with the System 6 timing console
- Use as a pace clock when not in competition
- Portable or permanent installation

Pace Clocks / Shot Clocks

Slim Pace Clocks

4-digit Slim Pace Clock

6-digit Slim Pace Clock

Features:

- High visibility red or amber LED digits
- Indoor or outdoor use
- Rugged powder-coated aluminum enclosures
- 2.4GHz integrated wireless
- Conformal coated digits and circuit boards to protect against corrosion
- Variable intensity settings

The Slim Pace Clock line offers an elegant pacing and time of day solution for your facility. The slim profile (only 2.8" deep) is perfect for displaying time of day and pacing with minimum extension from the wall of your facility. A straightforward and elegant display, the large 13" digits are easily visible from a distance.

The slim pace clocks are available with 4- or 6-LED digits. The 4-digit clock displays hours and minutes or minutes and seconds. The 6-digit clock displays hours, minutes, and seconds. If multiple pace clocks are used in a facility, they will wirelessly synchronize the time of day automatically.

Deck Clock

The Colorado Deck Clock is an excellent deck side display solution, cleverly designed to prevent tipping. The Deck Clock features a ruggedized polyethylene enclosure that is both water and sun resistant, and completely corrosion free. The built-in handle allows for easy carrying from point to point.

Multi-functional:

- The Deck Clock can be used as a game/shot clock for water polo, or to set pace in time of day.

Bright LED digits:

- Variable intensity settings allow comfortable visibility in a variety of environments and times of day or night

Wireless:

- Wirelessly receives game/shot data from CTS tabletop or handheld 2.4GHz wireless controllers. Can also receive wired data from the System 6 Timing Console.

Pacing:

- Pace in time of day (hours, minutes, and seconds without any controller. Multiple clocks will automatically synchronize in pace mode.

Integrated horn:

- The clock has an integrated weatherproof horn that produces both game and shot tones. This eliminates the need for separate game horn units.

Wired & Wireless Pace Clocks

Basic Pace Clock / Shot Clock (PC-Portable/PC-Standard)

Wireless Pro Pace Clock / Shot Clock (PCW-PRO)

Choose the functions you need:

Pace clock

All of these units can be run as standalone pace clocks, or set to run in a series of pace clocks with or without a timer or controller. Every pace clock in a series displays the same information.

Shot clock

Choose the Pro Pace Clock / Shot Clock, or the PC-Portable version of the Basic Pace Clock for water polo shot clock functionality. Shot clocks must be connected to the timer. Additional clocks can be added to display game time, time out time, and team scores.

Wireless capability

All versions of the Pace Clock / Shot Clocks are available with the ability to transmit and receive data wirelessly.

Special training modes and display options

The Pro Pace Clock / Shot Clock was designed with you and your athletes in mine, with 15 training modes to fine-tune skills and create customized workouts. The Pro Pace Clock can be used either with or without a timer or controller.

Pro Pace Clock training modes

Many modes require additional equipment for timing input. Contact your Sales Consultant for details, and help in designing your ideal training system.

- Lap counter
- Simple pace clock
- Pace clock with cumulative splits
- Pace clock with lap splits
- Relay exchanges
- Start reaction
- Turn speed
- Breakout time
- Reaction and breakout time
- Single lane lap timer (1, 2, 3, 4, or multiple laps)
- Mid-race timer

Pro Pace Clock display modes

The Pro Pace Clock can display the following information from a System 5 or System 6 Timing Console:

- Swimming: lane times, event/heat
- Training: lane times
- Diving: dive number & position, current round / current diver
- Water polo: game clock, shot clock, time out clock, team scores
- Synchronized swimming: award

Wired & Wireless Pace / Shot Clock Options & Accessories

part #	wireless part#	description
PC-Standard	PCW-Standard	Basic Pace Clock with red LED digits, handle and legs. Two intensity settings. No battery; A/C only.
PC-Portable	PCW-Portable	Basic Pace Clock with red LED digits, internal horn and battery, handle and legs. Two intensity settings.
PC-Pro-R	PCW-Pro	Pro Pace Clock with red LED digits internal horn and battery, handle and legs. Fifteen training modes.
UPC-C	--	Pace Clock Controller
TR-3	--	Tripod kit
PC-WMK	--	Wall mount kit
PC-FMK	--	Flush mount option

Training Tools

Colorado Time Systems offers a variety of training solutions that can generally be used in competition as well.

Backstroke Start Device

The backstroke start device (patent pending) helps to eliminate slips at the start of a race. The versatile design allows the device to be attached to nearly any starting block with either straps or anchors.

- Anti-slip foot wedge
- Easy to set up
- Automatically retracts up and out of the water
- Robust construction
- Adapts to most starting blocks
- FINA, USA Swimming, and US Masters Swimming compliant

Pace Clock Pro

Features 15 training modes to fine-tune skills and create customized workouts.

- Lap counter
- Simple pace clock
- Pace clock with cumulative splits
- Pace clock with lap splits
- Relay exchanges
- Start reaction
- Turn speed
- Breakout time
- Reaction and breakout time
- Single lane lap timer (1, 2, 3, 4, or multiple laps)
- Mid-race timer

Deck Clock

- Pace in time of day (hours, minutes, and seconds without any controller
- Multiple clocks will automatically synchronize in pace mode
- Variable intensity settings allow comfortable visibility in a variety of environments and times of day or night

Training Tools

Underwater Speaker

The underwater speaker allows you the unique opportunity to coach your athletes mid-pool. Ideal for:

- Talking to swimmers underwater
- Broadcasting a recall tone
- Clearing the pool
- SCUBA instruction

Relay Judging Platform with Speedlights

- Highest rated non-slip surface on the market
- Judge relay exchanges
- Judge start reaction times
- Speedlights (LEDs) across the front flash simultaneously with the start tone and strobe light
- Suitable for all athletes, at all levels
- Universal mounting system compatible with most Starting Block manufacturers

Train Right System

The Train Right System allows athletes to achieve peak performance. This unique package of training tools provides immediate visual feedback to both the coach and athlete, while offering the sound and feel of competition.

The Pace Clock displays accurate feedback to coaches and athletes regarding relay exchange, start reaction, turn speed, and breakout times.

This standalone, portable one-lane training system includes:

- Pace Clock Pro
- Pushbutton
- 30-inch “mini” touchpad or 76” x 90” touchpad
- Relay Judging Platform with Speedlights
- Infinity Start System or Championship Start System

Numeric Scoreboards

LED-R

Colorado Time Systems' LED-R numeric scoreboards are a cost-effective way to provide information, involve the audience, and showcase the athletes for all aquatic sports. Modules can be used individually or combined in multiple-module scoreboard designs.

Your display will enhance your program and provide excellent visibility. Designed specifically for the aquatic environment, your scoreboard's high quality construction resists corrosion in any environment, giving you years of trouble-free service.

Panels can be added to the numeric scoreboard for sponsor advertising or facility / team name.

LED-R scoreboards can be set to display information for swimming, diving, water polo, synchronized swimming, track, and other sports by simply moving the digits. The scoreboards may also serve as time-of-day and pace clocks.

LED-R scoreboards are available in red or amber (standard), or custom color for an additional fee. Standard digits are 10" high.

LED-R modules can be configured vertically and mounted in a corner or on a flat wall. Modules may also be configured side-by-side and flat wall mounted. Caddies are also available for up to 5 scoreboard modules, to provide a portable solution.

6-Digit Scoreboards

Signage & digits in one enclosure

A scoreboard that incorporates the best of both worlds. These 6-digit scoreboards are ideal for those who are space- and cost-conscious, but don't want to sacrifice information provided by traditional single line scoreboards. The sleek design allows you to display home and guest scores OR current event and heat without the need for additional signage. If you still want more, a dual purpose 6-digit scoreboard is available that allows you to show both scores and event/heat on the SAME LINE of scoreboard. Available with red or amber digits.

These scoreboards are designed to be used in conjunction with the 10" LED-R numeric scoreboards, and stack beautifully with each other and other lines of scoreboard.

Numeric Scoreboards

LED-REX

You can easily upgrade your light-reflective scoreboard to the newer LED-R numeric scoreboard with our retro-fit solution. Contact a Sales Consultant today for more information on this option.

Countdown Clock

Count down to any target time you specify.

Displays up to four digits for days, allowing for countdowns up to 9,999 days (more than 27 years)! Optional custom sign panels with sturdy enclosures are available to describe the countdown event. A different sign panel can be ordered when you are ready to count down to a new event.

Otter Swimming Boards

- 2.4GHz wireless scoring for 6-, 8-, or 10-lanes
- Indoor or outdoor use
- High visibility 5” LED digits
- Conformal coated digits and circuit board to protect against corrosion
- Brightness adjusts automatically to ambient light
- Integrated internal antennas for reliable communication with System 6 wireless adapter and Dolphin
- Permanent wall mount or caddy

Numeric Scoreboards

Otter Diving Boards

- 2.4GHz wireless scoring
- Indoor or outdoor use
- High visibility 5” LED digits
- Conformal coated digits and circuit board to protect against corrosion
- Brightness adjusts automatically to ambient light
- Integrated internal antennas for reliable communication with System 6 wireless adapter
- Permanent wall mount or caddy

Otter Water Polo Boards

- 2.4GHz wireless scoring
- Indoor or outdoor use
- High visibility 5” LED digits
- Conformal coated digits and circuit board to protect against corrosion
- Brightness adjusts automatically to ambient light
- Integrated internal antenna for reliable communication with System 6 wireless adapter, wireless handheld controller, or wireless tabletop controller
- Option to run wired with System 6 timing console
- Optional external horn
- Permanent wall mount or caddy

Multisport Scoreboards

Colorado Time Systems is pleased to offer a full line of scoreboards for non-aquatic sports. Contact your Sales Consultant for additional information.

Key Features

Durability

Each scoreboard is enclosed in a rugged powder-coated 5052-alloy aluminum chassis, and all digits and circuit boards are conformal coated to protect from harsh environments and withstand the test of time. The high gain flush mount patch antenna is uniquely mounted on an LED digit and protected by the Lexan cover to prevent breakage by errant balls and/or weather. Each numeric multisport scoreboard is covered by a **5-year warranty**.

Integrated 2.4GHz wireless

Our numeric scoreboards utilize integrated 2.4GHz wireless technology, with 12 independent channels and 16 independent networks per channel that provide reliable communication for up to 192 separate games at a facility.

Time of day clock

A real time of day chip (RTC) is integrated into each scoreboard, and can be programmed to display standard or military time. In between games, the scoreboard will revert to show time of day. The RTC features a battery with a 7-year downtime life. If multiple scoreboards are used in a facility, they will wirelessly synchronize the time automatically.

Service access

All digits and electronic components are accessed through the front face of the scoreboard. The digit covers are secured by quarter-turn slotted studs; which provide quick and convenient access to the electronic components behind them, and easy cleaning of the Lexan covers.

Customization options

- High visibility LED digits with adjustable brightness
- Select either all red, all amber, or mixed digit colors
- Enclosures can be customized to match your team colors
- Flexibility to select captions based on your application

LED Matrix Displays

Single Color LED Displays

These dynamic boards can be programmed in seconds to display scores for multiple sports, as well as text, graphics, animations, and logos.

The modular design can be customized to fit any facility and any budget. Our LED matrix displays are conformal coated to withstand the harsh environment of an aquatic facility. High quality LEDs are used to ensure the best quality and brightness available on the market today.

West Point Military Academy - West Point, NY

23mm Red Indoor LED Matrix Display
(96 x 176) - 2.2m x 4.0m (7 ft x 13 ft)

Washington State University - Pullman, WA

30mm Red Indoor LED Matrix Display
(96 x 192) - 2.9m x 5.8m (10 ft x 19 ft)

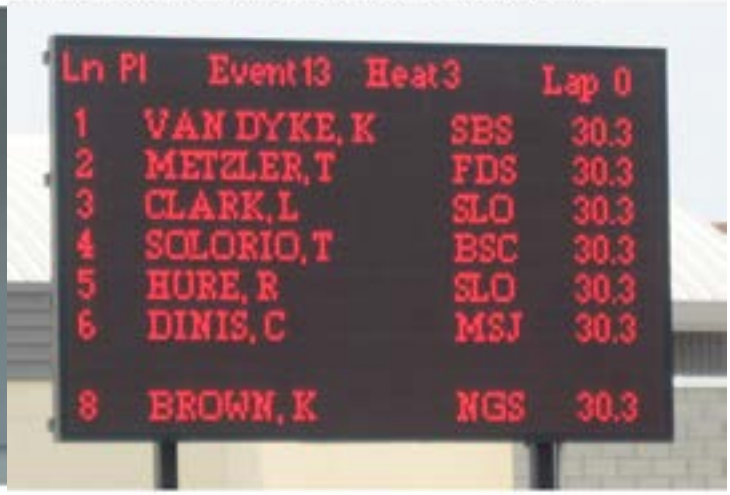
Soda Aquatic Complex - Moraga, CA

30mm Red Outdoor LED Matrix Display
(96 x 128) - 2.9 x 3.8m (10 ft x 12 ft)

Trail Aquatic & Leisure Center - Trail, BC (CAN)

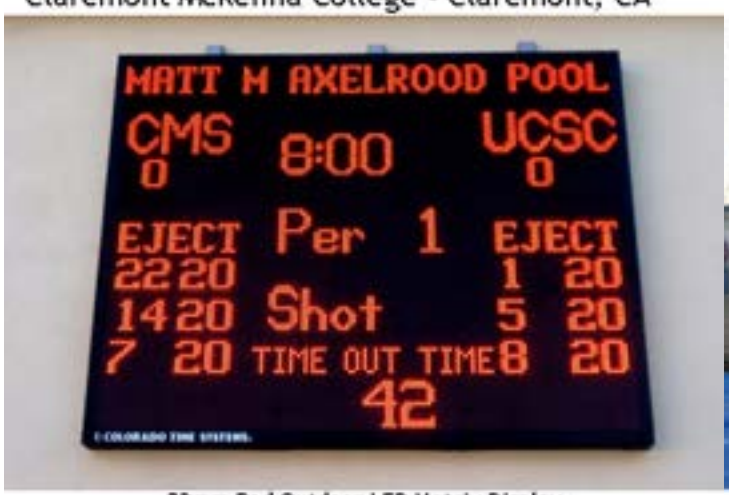
23mm Amber Indoor LED Matrix Display
(96 x 128) - 2.2m x 2.9m (7 ft x 10 ft)

Clovis Unified School District - Clovis, CA


Ln Pl Event 13 Heat 3 Lap 0
1 VAN DYKE, K SBS 30.3
2 METZLER, T FDS 30.3
3 CLARK, L SLO 30.3
4 SOLORIO, T BSC 30.3
5 HURE, R SLO 30.3
6 DINIS, C MSJ 30.3
8 BROWN, K NGS 30.3

30mm Red Outdoor LED Matrix Display
(96 x 160) - 2.9m x 4.8m (9.5 ft x 15.7 ft)

Claremont McKenna College - Claremont, CA



23mm Red Outdoor LED Matrix Display
(112 x 144) - 2.6m x 3.3m (8.5 ft x 10.8 ft)

Roseville Aquatics Complex - Roseville, CA

30mm Red Outdoor LED Matrix Display
(96 x 160) - 2.9m x 4.8m (10 ft x 16 ft)

"This scoreboard is a nice thing for us! We have never had the capacity before - now we will be able to do chase starts, run both ends of the pool; and have (2) 8-lane courses on the board at the same time. We'll be able to display heat, lane, time, and place -- then come back and import for finals and put names on the board."

--JOHN MCGOUGH - DIRECTOR OF CLOVIS UNIFIED AQUATICS

Full Color LED Matrix/Video Displays

Video scoreboards and displays can be used as a standalone unit or combined with numeric or single color LED matrix displays for added impact. Video boards display full color scores, text, graphics, animations, video, and logos.

Our LED Matrix Displays are conformal coated to withstand the harsh environment of an aquatic facility. High quality LEDs are used to ensure the best quality and brightness available on the market today. We offer a comprehensive solution, including: assistance with facility design, architectural guidelines, consulting during construction, project management, installation, operator training, post-sales support, on-site service, game day management, and maintenance.

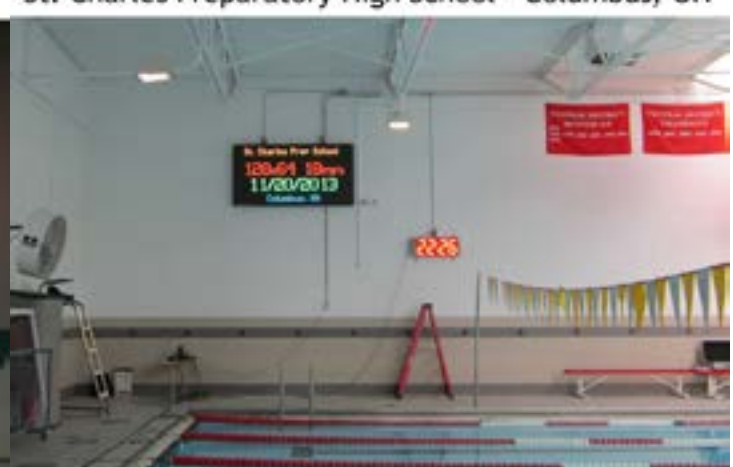
Fairmont Aquatic Center - Salt Lake City, UT

12.7mm Full Color Indoor LED Matrix Display
(180 x 288) - 2.3m x 3.7m (7.5 ft x 12.1 ft)

Delta State University - Cleveland, MS

12.7mm Full Color Indoor LED Matrix Display
(216 x 432) - 2.7m x 5.5m (8.9 ft x 18.0 ft)

St. Charles Preparatory High School - Columbus, OH



18mm Full Color Indoor LED Matrix Display
(64 x 128) - 1.2m x 2.3m (3.9 ft x 7.5 ft)

Edmond Recreation Center - Edmond, OK

(L) 12.7mm Full Color Indoor LED Matrix Display: (216 x 384) - 2.7m x 4.9m (8.9 ft x 16.1 ft)
(R) 20.32mm Full Color Indoor LED Matrix Display: (144 x 288) - 2.9m x 5.9m (9.5 ft x 19.4 ft)

Edmond Recreation Center - Edmond, OK

20.32mm Full Color Indoor LED Matrix Display
(144 x 288) - 2.9m x 5.9m (9.5 ft x 19.4 ft)

St. Peters Rec Plex - St. Peters, MO

12.7mm Full Color Indoor LED Matrix Display
(252 x 480) - 3.2m x 6.1m (10.5 ft x 20.0 ft)

Steiner Youth Aquatic Center East - Salt Lake City, UT

12.7mm Full Color Indoor LED Matrix Display
(216 x 288) - 2.7m x 3.7m (8.9 ft x 12.1 ft)

Cabrillo High School - Long Beach, CA

20.32mm Full Color Outdoor LED Matrix Display
(144 x 256) - 2.9m x 5.2m (9.5 ft x 17.1 ft)

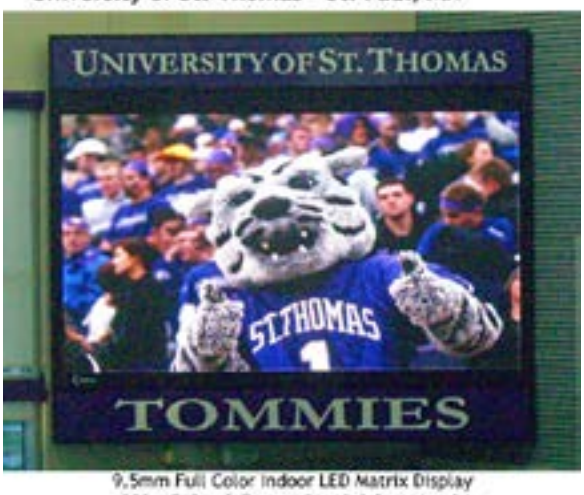
Luther College - Decorah, IA

23mm Full Color Indoor LED Matrix Display
(112 x 192) - 2.6m x 4.4m (8.5 ft x 14.4 ft)

Northside ISD - San Antonio, TX

20.32mm Full Color Indoor LED Matrix Display
(96 x 160) - 2.0m x 3.3m (6.6 ft x 10.8 ft)

University of St. Thomas - St. Paul, MN



9.5mm Full Color Indoor LED Matrix Display
(288 x 512) - 2.7m x 4.9m (8.9 ft x 16.1 ft)

Twinsburg Fitness Center - Twinsburg, OH

23mm Full Color Indoor LED Matrix Display
(80 x 160) - 1.8m x 3.7m (5.9 ft x 12.1 ft)

Nanaimo Aquatic Centre - Nanaimo, BC

23mm Full Color Indoor LED Matrix Display
(112 x 208) - 2.6m x 4.8m (8.5 ft x 15.7 ft)

Grosse Pointe South High School - Grosse Pointe Farms, MI

23mm Full Color Indoor LED Matrix Display
(128 x 224) - 2.9m x 5.2m (10 ft x 17 ft)

University of Pennsylvania - Philadelphia, PA

12.7mm Full Color Indoor LED Matrix Display
(180 x 288) - 2.3m x 3.7m (7.5 ft x 12.1 ft)

Jackson Hole High School - Jackson Hole, WY

EVENT 1
JHHS BRONCS SWIMMING
HEAT 1
JHHS BRONCS INVITATIONAL
MENS 800 BUTTERFLY
1 CHAD MANDIGO CTS
2 RICK CONNELL CTS 7042
3 PHIL WOODS CTS 7042
4 MARK POLANSKY CTS 7042
5 JAY RIEGLE RTC 7042
6 TAC DORAN CTS 7042
7 CHRIS BONIN CTS 7042
8 DUSTIN WENTZ CTS 7042

18mm Full Color Indoor LED Matrix Display
(112 x 192) - 2.0m x 3.5m (6.6 ft x 11.5 ft)

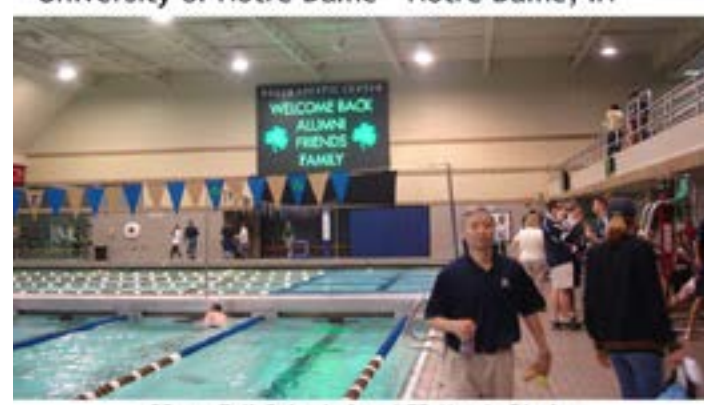
Corby Pool - UK

23mm Full Color Indoor LED Matrix Display
(96 x 208) - 2.2m x 4.8m (7.2 ft x 15.7 ft)

Cleveland State University - Cleveland, OH

23mm Full Color Indoor LED Matrix Display
(144 x 256) - 3.3m x 5.9m (11 ft x 19 ft)

University of Notre Dame - Notre Dame, IN



23mm Full Color Indoor LED Matrix Display
(144 x 256) - 3.3m x 5.9m (11 ft x 19 ft)

Minnetonka Aquatic Center - Minnetonka, MN

23mm Full Color Indoor LED Matrix Display
(96 x 176) - 2.2m x 4.4m (7 ft x 13 ft)

Greenhill School - Addison, TX

18mm Full Color Indoor LED Matrix Display
(64 x 128) - 1.2m x 2.3m (4 ft x 8 ft)

University of Arizona - Tucson, AZ

23mm Full Color Outdoor LED Matrix Display
(112 x 208) - 2.6m x 4.8m (9 ft x 16 ft)

Calvin College - Grand Rapids, MI

23mm Full Color Indoor LED Matrix Display
(144 x 256) - 3.3m x 5.9m (10.8 ft x 19.4 ft)

Steele Canyon High School - Spring Valley, CA

20.32mm Full Color Outdoor LED Matrix Display
(96 x 160) - 2.0m x 3.3m (6.6 ft x 10.8 ft)

University of Virginia - Charlottesville, VA

23mm Full Color Indoor LED Matrix Display
(144 x 256) - 3.3m x 5.9m (11 ft x 19 ft)

San Juan Hills High School - San Juan Capistrano, CA

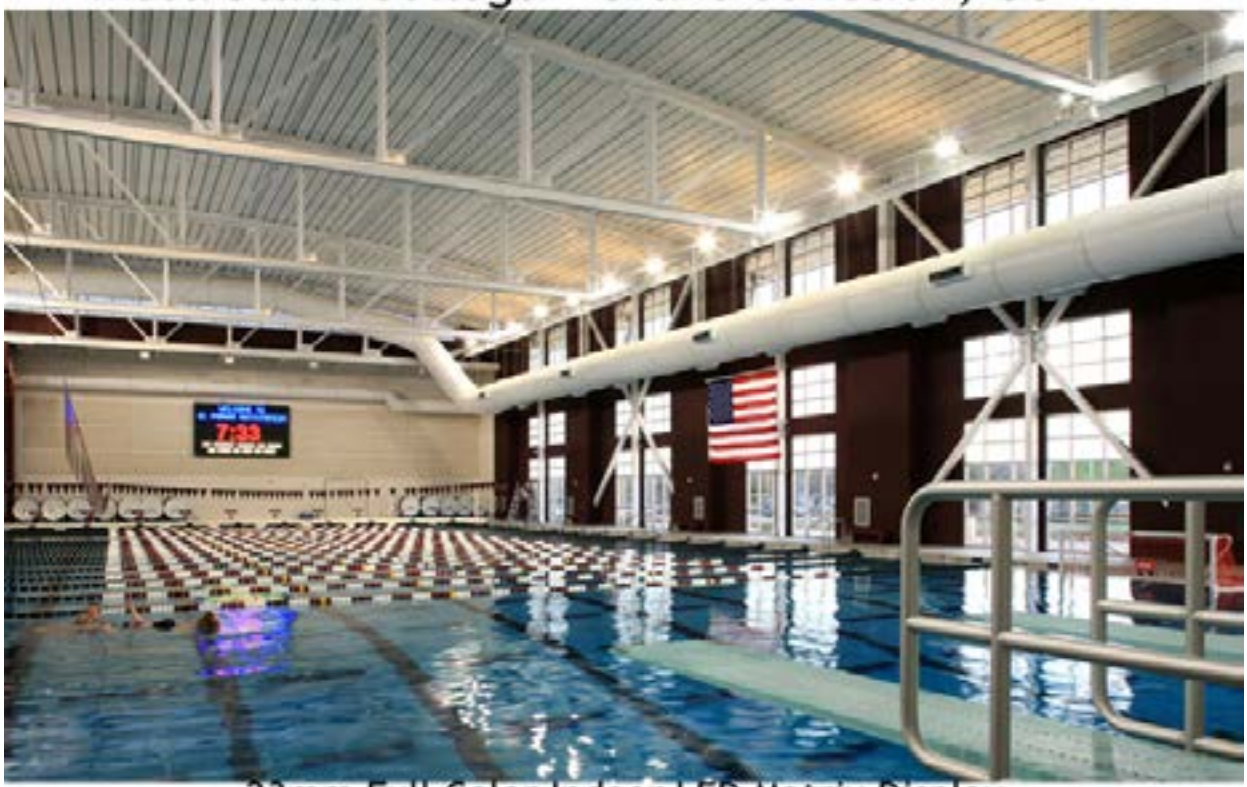
20.32mm Full Color Outdoor LED Matrix Display
(144 x 256) - 2.9m x 5.2m (9.5 ft x 17.1 ft)

Capitol Federal Natatorium - Topeka, KS

EVENT 1
22
TRUE BLUE IGLOO
HEAT
2
R Boys 11-12 50 Breast
RECORD 33.13
1 Newsome, C LA 48.39 4
2 Smith, C TSS 52.55 6
3 Bartiste, B COOL 45.62 2
4 Lin, S LA 42.78 1
5 Bonham, P TST 50.72 5
7 Martello, A AAAA 46.38 3
8 Robbins, B COOL 54.06 7
Capitol Federal Natatorium

23mm Full Color Indoor LED Matrix Display
(112 x 208) - 2.6m x 4.8m (8.5 ft x 15.7 ft)

Mesa State College - Grand Junction, CO



23mm Full Color Indoor LED Matrix Display
(128 x 224) - 2.9m x 5.2m (10 ft x 17 ft)

Granite Hills High School - El Cajon, CA

20.32mm Full Color Outdoor LED Matrix Display
(120 x 192) - 2.4m x 3.9m (7.9 ft x 12.8 ft)

DisplayLink+ Software for Full Color/Video LED Matrix Displays

DisplayLink+ (DL+) software allows you to bring your matrix display to life with a myriad of features bound to entertain and captivate your audience.

DL+ software is a dynamic software interface program designed specifically for our LED matrix displays. DL+ provides robust handling of scoring, timing, graphics, animations, and video to your display. DL+ supports all aquatic sports (swimming, diving, water polo, and synchronized swimming), as well as a number of other sports.

Key Features:

Drag & drop animations and graphics

Use DL+ to display graphics and animation. Simply select a graphic or animation from the library window and drag it on top of the Active Display window. The matrix display will immediately show the chosen graphic or animation.

Multi-layer display

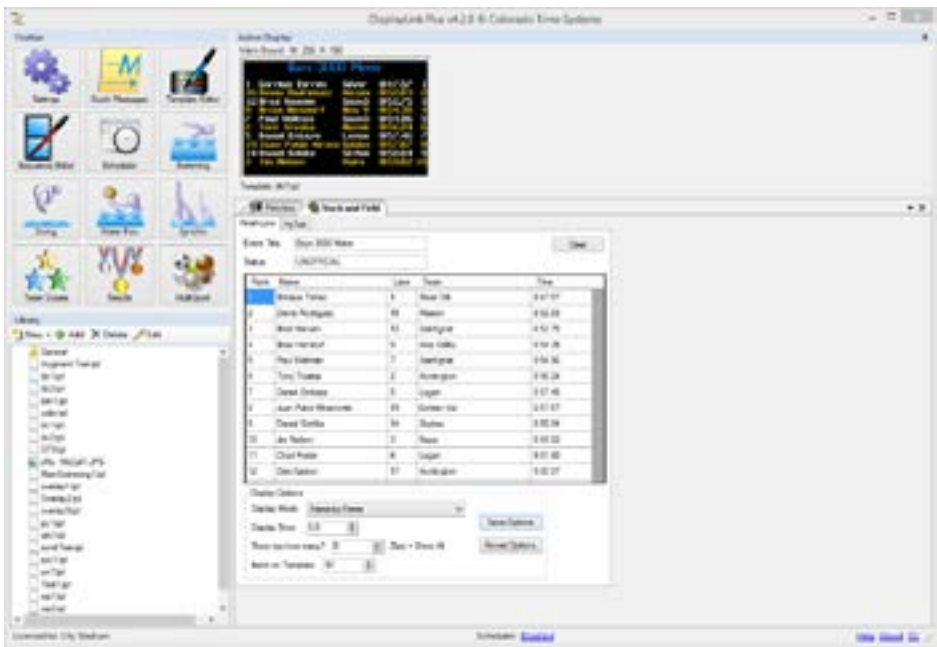
Display scoring data (templates) over video. Templates may also be made transparent

Slide show capabilities

Create your own slide show with the Sequence Editor and set them to run on a continual loop. Generate advertising revenue by creating a sponsor slide show and letting it run throughout the day. The display will catch everyone's attention and get your message noticed.

Meet management interface

DL+ interfaces with many meet management software packages. Now, fans can easily follow their favorite athlete and/or team and increase their enjoyment of, and excitement for the event.



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